Gordon Research Conference on Drug Metabolism
July 17-21, 1989
Holderness School, Plymouth, New Hampshire

Chairman: Paul F. Hollenberg, Wayne State University
Vice-Chairman: Sanford K. Figdor, Pfizer Central Research

Monday AM

Session: ROLE OF DRUG METABOLISM IN THE DESIGN OF BETTER THERAPEUTIC AGENTS

Discussion Leader: Gerald T. Miwa
Department of Drug Metabolism, Glaxo Research Laboratories
Five Moore Drive, Research Triangle Park, NC   27709, (919) 248-2100

Speakers:

John F. Newton, Department of Drug Metabolism, Smith Kline & French Laboratories
P.O. Box 1539, Mail Code L721, King of Prussia, PA   19406-0939, (215) 270-5243

"Design of Metabolically Stable Peptidoleukotriene Receptor Antagonists"

Shuet-Hing Lee Chiu, Department of Exploratory and Animal Drug Metabolism, Merck
Sharp & Dohme Research Laboratories, P.O. Box 2000, Rahway, NJ   07065,   (210)
574-5215

"The Role of Drug Disposition in the Selection and Design of New Drugs"

James P. Snyder, Drug Design, GD Searle Research & Development, 4901 Searle
Parkway, Skokie, IL   60077, (312) 982-7000

"Molecular Modelling and the Development of Anti-ulcerogenic Prostaglandins"

Monday PM

Session: UPD-GLUCURONOSYLTRANSFERASE CATALYZED REACTIONS IN DRUG METABOLISM

Discussion Leader: Thomas R. Tephly
Department of Pharmacology, University of Iowa, Bowen Science Building
Iowa City, IA   52242,   (319) 335-7979

Speakers:

Mitchell Green, Department of Pharmacology, the University of Iowa, Bowen Science
Building, Iowa City, IA   52242, (319) 335-7969

"Comparison of Properties of UDP GTs Isolated From Animal and Human Liver"

K. Walter Bock, Professor of Toxicology, University of Tubingen, Tubingen, West
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"Role and Regulation of Glucuronidation in Animals and Humans"

Tuesday AM

Session: RELATIONSHIP AMONG SPECIES, INCLUDING MAN, IN LIVER DRUG METABOLISM

Discussion Leader: Philip S. Guzelian
Division of Clinical Toxicology and Environmental Medicine
Medical College of Virginia, Box 267, MCV Station
Richmond, VA 23298 (804) 786-9693

Speakers:

Frank J. Gonzalez,   National Institutes of Health, Building 37, Room 3-D19
Molecular Carcinogenesis, Bethesda, MD   20205 (301) 496-9067

"cDNA-Directed Expression of Human Cytochrome P-450 in Cell Culture"

Urs Meyer, Department of Pharmacology, Biocenter of the University,
Klingelbergstr 70/Ch-4056, Basel, Switzerland, 011-41-61-25724

"Genetic Polymorphisms of Drug Metabolizing Enzymes: Molecular Mechanisms"

Paul B. Watkins, University of Michigan Medical Center, 6510D Medical Science
Research Building 1, Ann Arbor, MI 48109, (313) 747-2944

"Use of Invasive and Non-Invasive Techniques to Compare
Cytochromes P-450 Present in Rat and Man"

Tuesday PM

Session: TRANSPORT PROCESSES RELATED TO DRUG METABOLISM

Discussion Leader: Mary Vore

Speakers:

Mary Vore, Department of Pharmacology, University of Kentucky, College of
Medicine, 800 Role St., Lexington, KY 40536, (606) 233-5249

"Mechanisms and Substrate Specificities of Hepatic Organic Anion Transport"

Dirk K.J. Meijer, Department of Pharmacology and Therapeutics, State University
of Groningen, Ant. Deusinglaan 2, 9713 AW Groningen, Netherlands (050) 6332 72

"Rate Limiting Steps in the Hepatic Transport of Drugs and Drug
Metabolites at the Sinusodial and Bile Canalicular Level"

Wednesday AM

Session: FLAVOPROTEINS IN DETOXICATION

Discussion Leader: Daniel M. Ziegler

Speakers:

K.V. Rajagopalan, Department of Biochemistry, Duke University, Durham, NC 27710, (919) 684-3120

"Enzyme-Substrate Interactions in Molybdenum Hydroxylases"

Daniel M. Ziegler, Department of Chemistry, University of Texas, Austin, TX 78712, (512) 471-5333

"Substrate Specificities of Microsomal Flavin-Containing Monooxygenases"

Patricia E. Levi, Toxicology Program, Box 7633, North Carolinia State University, Raleigh, NC 27695-7633, (919) 737-2275

"Role of Flavin-Containing Monooxygenases in Pesticide Oxygenation"

Wednesday, PM

Session: MECHANISTIC APPROACHES TO TOXICOLOGY

Discussion Leader: Doyle G. Graham

Speakers:

Doyle G. Graham, Department of Pathology, Duke University, Medical Center, Box 3712, Durham, NC 27710, (919) 684-2498

"Molecular Pathogenesis of γ - Diketone Neuropathy"

Marion W. Anders, Department of Pharmacology, University of Rochester, School of Medicine and Dentistry, 601 Elmwood Avenue, Rochester, NY 14642, (716) 275-3141

"Mechanisms of Glutathione-Dependent Bioactivation of Xenobiotics"

Session: DRUG METABOLISM AND TOXICITY

Discussion Leader: Robert P. Hanzlik
Department of Medicinal Chemistry, University of Kansas
Lawrence, KS 66045-2500, (913) 864-3750

Speakers:

Nicolas P.E. Vermeulen, Department of Pharmacochemistry and Molecular Toxicology,
Free University, de Boelelaan 1083, 1081 HV Ansterdam, The Netherlands
31-20-548-2963

"Mechanism-Based Prevention of Hepatotoxicity of Paracetamol"

Serrine Lau, College of Pharmacy, University of Texas at Austin, Austin, TX 78712
(512) 471-5190

"Determinants of Quinol-Linked Glutathione Conjugate-Mediated Toxicity"

Barry Gold, Eppley Institute for Research in Cancer, University of Nebraska
Medical Center, 42nd and Dewey Avenue, Omaha, NE 68105, (402) 559-5148

"Metabolism and Toxicity of Carcinogens"

Thursday PM

Session: KEYNOTE SPEECH

Discussion Leader: Paul F. Hollenberg
Department of Pharmacology, Wayne State University School of Medicine
540 E. Canfield, Detroit, MI 48201, (313) 577-1580

Speaker:

Minor J. Coon, Department of Biological Chemistry, University of Michigan Medical
School, 5416 Medical Science I, Ann Arbor, MI 48109-0606, (313) 764-8154

"Cytochrome P-450 and Drug Metabolism:
Recent Developments and Future Prospects"

Session: NEW ANALYTICAL METHODS

Discussion Leader: Sanford K. Figdor
Pfizer Central Research, Pfizer, Inc.
Eastern Point Road, Groton, Connecticut 06340, (203) 441-4100

Speakers:

Andrew Ewing, 152 Davey Laboratory, Penn State University, University Park, PA 16802, (814) 863-4653

"Capillary Zone Electrophoresis"

Robert Strife, Proctor and Gamble, Inc., P.O. Box 398707, Cincinnati, OH 45239-8707, (513) 245-2655

"Simplified Analysis of Biological Extracts by Ion Trap Tandem MS"